The PD686 Loop-Powered Meter
Discontinued After 27 Years!

The model PD686 has been discontinued. Please consider the following products as possible replacements:

FOR NEMA 4X FIELD MOUNT APPLICATIONS

Choose the PD685 Loop-Powered Meter if Specific USA Approval is Not Needed

- Same general appearance as PD686
- Slightly smaller NEMA 4X enclosure
- PD686: FM & CSA approved; PD685: CSA and ATEX / IECEx approved

IECEx

▶ PD685 Details

| Discontinued | PD686 | | Replacement | PD685 |

Choose the PD6606 Loop-Powered Meter with PDA2801 NEMA 4X Enclosure if Specific USA Approval is Needed

- Panel meter mounted in an enclosure solution (2 items to purchase)
- PD686: FM and CSA approved; PD6606: UL & C-UL listed, ATEX / IECEx approved

IECEx

▶ PD6606 Details   ▶ PDA2801 Details

| Discontinued | PD686 | | Replacement | PD6606 / PDA2801 |

FOR PANEL MOUNT APPLICATIONS

Choose the PD6606 Loop-Powered Meter for Panel Mount Applications

- One item to purchase (PD6606) vs two items to purchase (PD686 & PDA6844)
- PD6606 fits in smaller panel cutout than PD686
- PD6606 has NEMA 4X seal to panel; PD686 / PDA6844 does not

IECEx

▶ PD6606 Details

| Discontinued | PD686 / PDA6844 | | Replacement | PD6606 |

Please review the specifications for these products carefully and contact tech support at (508) 315-5293 if needed before revising model numbers.

LMDPD686_DISCONT

Compare specifications of these loop-powered meters:

Specifications	PD686	PD685	PD6606
Input	4-20 mA @ 30 VDC maximum	4-20 mA @ 30 VDC maximum	4-20 mA
Display	1.0" (25.4 mm) LCD, 3½ digits; -1999 to +1999	1.1" (28 mm) LCD, 3½ digits; -1999 to +1999	Dual-line LCD with backlight. Both lines 14-segment alphanumeric. Top: 0.7" (17.8 mm) 5 digits Bottom: 0.4" (10.2 mm) 8 characters Display may be programmed to turn red and flash a user-defined message on alarm condition.
Backlight	None	Powered by 4-20 mA loop. Intensity varies with signal level.	Powered by 4-20 mA loop Intensity varies with signal level
Bargraph (PD6608 only)	None	None	20 segments, numeric percent indication at top (PD6608 only)
Alarm Indication	None	None	Programmable: red backlight, flashing display, alarm symbol (!); (symbols not available on bargraph models). Bargraph segment flashes on alarm.
Accuracy	±0.1% FS ±1 count	±0.1% FS ±1 count	±0.02% of span ±1 count
Approvals (See instruction manuals for complete details on approvals)	**FM & CSA:** Certified as intrinsically safe with entity. Nonincendive for use in Class I, Division 2, Groups A, B, C and D. **FM:** Intrinsically Safe, Class I, Zone 0, AEx ia IIC T4	**ATEX and IECEx:** Certified as intrinsically safe with entity **CSA:** Certified as intrinsically safe with entity, to U.S. and Canadian standards for Divisions and Zones (Gas and Dust) Certified as suitable for Division 2 without barriers, to U.S. and Canadian Standards	**ATEX and IECEx:** Certified as intrinsically safe with entity **UL & C-UL:** Listed as Intrinsically Safe and Nonincendive
Entity Parameters	Ui = 30 V, Ii = 175 mA, Ci = 0 μF, Li = 0 μH, Pi = 1.3 W	Ui = 30 V, Ii = 175 mA, Pi = 1 W, Ci = 0, Li = 0	Ui: 30 V; Ii: 175 mA; Ci: 0 μF; Li: 0 μH; Pi: 1.0 W
Panel Mount	Requires PDA6844 Panel Mounting Kit	NA	Intended to be panel mounted
Panel Cutout	5.40" x 3.08" (138 mm x 78 mm)	5.04" x 3.07" (128 mm x 78 mm)	3.622" x 1.772" (92mm x 45 mm)
Maximum Voltage Drop	1 V @ 20 mA	1 V @ 20 mA (4 V @ 20 mA with backlight)	Without backlight: 1.5 V maximum, With backlight: 4.5 V maximum
Operating Temperature	-40 to 85°C Canadian installations: -40 to 40°C	-40 to 75°C Canadian installations: -40 to 40°C	-40 to 75°C for safe area products -40 to 70°C for hazardous area products
Storage Temperature	-40 to 85°C	-40 to 85°C	-40 to 85°C
Relative Humidity	0 to 90% non-condensing PCBs are conformally coated.	0 to 90% non-condensing PCBs are conformally coated	0 to 90% non-condensing PCBs are conformally coated
Enclosure	Impact-resistant glass filled polycarbonate body, color: gray; impact-resistant clear polycarbonate cover; Type 4X, IP67	Impact-resistant, glass-filled, polycarbonate body, opaque; Impact-resistant, polycarbonate cover, transparent; Polyurethane/polymer gasket; Polyamide/plastic cover screws; Type 4X, IP67	Enclosure: 1/8 DIN, IP65, NEMA 4X front panel, high impact plastic, NORYL® polyphenylene ether & polystyrene blend (PPE PS) resin, UL 94V-0, Color: gray, Gasket: silicone rubber, Faceplate: LEXAN® polycarbonate (PC) Film, Buttons: silicone rubber
Connections	Removable screw terminals accept 12 to 26 AWG	Removable screw terminals accept 12 to 26 AWG	Removable screw terminals accept 12 to 22 AWG wire
Conduit Hole	One 22 mm (0.865") hole provided. See Ordering Information in manual.	One 22 mm (0.865") hole provided. See Ordering Information in manual.	None
Overall Dimensions	5.51" x 3.15" x 2.56" (W x H x D) (140 mm x 80 mm x 65 mm)	4.41" x 3.15" x 2.75" (W x H x D) (112 mm x 80 mm x 70 mm)	4.68" x 2.45" x 3.79" (W x H x D) (119 mm x 62 mm x 96 mm)
Weight	12 oz (340 g)	12 oz (340 g)	8.7 oz (247g) with option board
Warranty	3 years parts and labor	3 years parts and labor	3 years parts and labor
HART Transparency	✓	✓	✓